

**AUTOMATED THRESHOLD SELECTION  
FOR A TRACTABLE ALARM RATE**

ABSTRACT

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A method and system for selecting a threshold for use in detecting anomalous objects, or targets, in images with a tractable false alarm rate. A method includes steps of identifying a number of peak values from a plurality of values; calculating an average peak value from the identified peak values derived  
10 in the previous step; and calculating the threshold according to the average peak value; the number of identified peak values; and a predetermined number of false alarms. In this manner, object classifications are accurate; the number of false alarms is reduced; and redundant classifications are minimized for each image.

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